



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY  
A Nationally Accredited Laboratory

700 NORTH 5TH STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-6971

### CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II  
SERIAL NUMBER: 010545  
CERTIFICATION DATE: October 17, 2013  
DATE RECERTIFICATION DUE: April 15, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

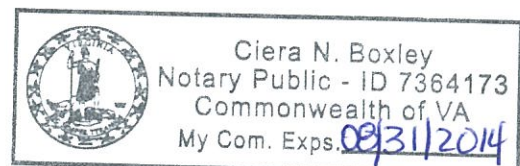
Melissa Kennedy  
Program Manager, Calibration & Training

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 25<sup>th</sup> day of October, 2013 by Melissa Kennedy

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014  
TLN



**Department of Forensic Science**  
**Breath Alcohol Section**  
**Instrument Maintenance History**  
**1/1/1990 To 10/18/2013**

*HMS*  
*RJP*

**Instrument Serial Number: 010545**

**As of 18-Oct-13**

<b>Maintenance</b>	<b>Certification</b>	<b>Technician</b>	
<b>Date</b>	<b>Date</b>	<b>Initials</b>	<b>Remarks</b>
17-Oct-13	17-Oct-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED, REPLACED DRY GAS STANDARD.
13-May-13	13-May-13	HMS (18910)	CERTIFIED
28-Nov-12	28-Nov-12	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED, REPLACED DRY GAS STANDARD.
06-Jun-12	06-Jun-12	HMS (18910)	CERTIFIED
13-Dec-11	13-Dec-11	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
05-Jul-11	05-Jul-11	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
25-Jan-11	25-Jan-11	HMS (18910)	CERTIFIED
10-Aug-10	10-Aug-10	HMS (18910)	REPLACED DRY GAS STANDARD, CERTIFIED
02-Mar-10	02-Mar-10	HMS (18910)	CERTIFIED
25-Sep-09	25-Sep-09	HMS (18910)	CERTIFIED.
21-Apr-09	21-Apr-09	HMS (18910)	CERTIFIED.
17-Apr-09	17-Apr-09	MSK (21355)	FIRMWARE/SOFTWARE UPGRADE, CERTIFIED.
14-Oct-08	14-Oct-08	RJP (22428)	CALIBRATED, CERTIFIED AND ACCEPTED.



Instrument Serial Number 010545

Certification Date 10/17/2013

Instrument Barometer (mm HG) 745

Reference Barometer (mm HG) 747

Reference Barometer(RB)Serial # 009113

RB Calibration Due 5/8/2014

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.250	0.245	0.237	0.252	Sample 2	0.242
Precision		sample min	sample max	Sample 3	0.242
0.001		0.242	0.243		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.150	0.147	0.142	0.151	Sample 2	0.147
Precision		sample min	sample max	Sample 3	0.147
0		0.147	0.147		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.080	0.078	0.075	0.081	Sample 2	0.078
Precision		sample min	sample max	Sample 3	0.078
0		0.078	0.078		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated☒ Certified☒ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG210901-13

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.100	0.098	0.095	0.101	Sample 2	0.098
Precision		sample min	sample max	Sample 3	0.098
0		0.098	0.098		

DFS Technician

Heath W. Stark

Date

10/18/13

Issuing Analyst

Melissa Kennedy

Date

10/19/13

Intox EC/IR II QA Worksheet

Issued by Calibration and Training Program Manager

Issue Date: 4-March-2013

DFS Document 250-F113

Revision 6

Page 2 of 2






COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

*Handwritten initials/signature*

NAME OF ACCUSED <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
---	-----------------------------

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>STANTON, HEATHER, M</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>18910</b>	LICENSE EXPIRES <b>10/01/2014</b>	DATE TEST CONDUCTED <b>10/17/2013</b>
TEST EQUIPMENT NUMBER <b>010545</b>		

RESULTS: TIME SAMPLE TAKEN 14:01 EDT

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_  
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_  
OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 18 Oct 2013 at 08:21

HMS  
ASK

## Test Results

Instrument Serial Number 010545

Test # 000579 Subject Test

Test Location 1 Department of  
Test Date 17 Oct 2013

Test Location 2 Forensic Science  
Test Time 13:54  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name STANTON  
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M

Card Serial Number 118910

License Number 18910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 17 Oct 2013 End Time 14:03

Result Time 14:01

Result Date 17 Oct 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 13:54

Data Type BLK

Sample Value 0.000

Sample Time 13:55

Data Type CHK

Sample Value 0.100

Sample Time 13:55

Data Type BLK

Sample Value 0.000

Sample Time 13:57

Data Type SUBJ

Sample Value 0.000

Sample Time 13:59

Data Type BLK

Sample Value 0.000

Sample Time 14:00

Data Type SUBJ

Sample Value 0.000

Sample Time 14:01

Data Type BLK

Sample Value 0.000

Sample Time 14:02

Standard Type Dry Gas Std

Standard Value 0.098

Standard Lot Number AG206601-10

Standard Expiration Date 03/06/2014

Tank Pressure 198

Barometric Pressure 745 mmHg

Blow Sample Number 1 Blow Duration 2.82 sec

Blow Volume 1783 cc End-of-Blow Time 13:59

Blow Sample Number 2 Blow Duration 3.49 sec

Blow Volume 1748 cc End-of-Blow Time 14:01

Tamper Evident Stamp 050f7955

Test Status Code 0

Test Status Success

LWS  
RSH

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010545      Test Number: 580

Test Date: 10/17/2013      Test Time: 14:04 EDT

Dry Gas Target: 0.098

Lot Number: AG206601-10      Exp Date: 03/06/2014

Tank Pressure: 198 psi      Barometric Pressure: 745 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:04
CHK	0.100	14:05
BLK	0.000	14:07
CHK	0.100	14:08
BLK	0.000	14:09
CHK	0.099	14:10

Test Status: *Success*

Calibration CRC: 00979252

hms  
nsk

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010545      Test Number: 581

Test Date: 10/17/2013      Test Time: 14:12 EDT

Dry Gas Target: 0.294

Lot Number: AG322702-01      Exp Date: 08/15/2015

Tank Pressure: 448 psi      Barometric Pressure: 744 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:13
CHK	0.297	14:14
BLK	0.000	14:16
CHK	0.297	14:16
BLK	0.000	14:18
CHK	0.296	14:19

Test Status: *Success*

Calibration CRC: 00979252



HMS  
HMS

**Intox EC/IR-II: Software Version**

*Department of Forensic Science*

Serial Number: 010545

System Date: 10/17/2013

System Time: 14:43 EDT

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

**Intox EC/IR-II: Calibration**

*Department of Forensic Science*

Serial Number: 010545      Test Number: 582

Test Date: 10/17/2013      Test Time: 14:45 EDT

Dry Gas Target: 0.098

Lot Number: 0651210013-06      Exp Date: 04/01/2014

Tank Pressure: 620 psi      Barometric Pressure: 744 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:46
CAL	0.098	14:47

Test Status: *Success*

Calibration CRC: 12FC2C8E

HMS  
MSL

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010545      Test Number: 583  
Test Date: 10/17/2013      Test Time: 14:50 EDT

Technician Initials: HMS

Dry Gas Target: 0.245

Lot Number: 2961225012-08      Exp Date: 11/01/2014

Tank Pressure: 477 psi      Barometric Pressure: 744 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:50
BLK	0.000	14:51
CHK	0.243	14:52
BLK	0.000	14:53
CHK	0.242	14:54
BLK	0.000	14:55
CHK	0.242	14:56
BLK	0.000	14:58

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

*HMS*  
*pub*

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010545      Test Number: 584

Test Date: 10/17/2013      Test Time: 14:59 EDT

Technician Initials: HMS

Dry Gas Target: 0.147

Lot Number: 0771315013-01      Exp Date: 05/01/2015

Tank Pressure: 1026 psi      Barometric Pressure: 744 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:00
BLK	0.000	15:01
CHK	0.147	15:01
BLK	0.000	15:03
CHK	0.147	15:03
BLK	0.000	15:04
CHK	0.147	15:05
BLK	0.000	15:07

**Success**

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

HMS  
MHL

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010545      Test Number: 585

Test Date: 10/17/2013      Test Time: 15:11 EDT

Technician Initials: HMS

Dry Gas Target: 0.078

Lot Number: 0771308012-04      Exp Date: 05/01/2015

Tank Pressure: 1056 psi      Barometric Pressure: 744 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:12
BLK	0.000	15:12
CHK	0.078	15:13
BLK	0.000	15:14
CHK	0.078	15:15
BLK	0.000	15:16
CHK	0.078	15:17
BLK	0.000	15:18

**Success**

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

AMS  
NLS

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010545      Test Number: 586

Test Date: 10/17/2013      Test Time: 15:20 EDT

Technician Initials: HMS

Dry Gas Target: 0.020

Lot Number: 0651202011-03      Exp Date: 04/01/2014

Tank Pressure: 120 psi      Barometric Pressure: 744 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:20
BLK	0.000	15:21
CHK	0.019	15:22
BLK	0.000	15:23
CHK	0.019	15:24
BLK	0.000	15:25
CHK	0.019	15:26
BLK	0.000	15:27

**Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success



Handwritten initials: "KMS" and "MSK"

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010545      Test Number: 587

Test Date: 10/17/2013      Test Time: 15:29 EDT

Dry Gas Target: 0.294

Lot Number: AG322702-01      Exp Date: 08/15/2015

Tank Pressure: 438 psi      Barometric Pressure: 744 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	15:30
CHK	0.296	15:30
BLK	0.000	15:32
CHK	0.296	15:33
BLK	0.000	15:34
CHK	0.295	15:35

Test Status: *Success*

Calibration CRC: 12FC2C8E

AMS  
MSK

**Intox EC/IR-II: Accuracy Check**

*Department of Forensic Science*

Serial Number: 010545      Test Number: 588

Test Date: 10/17/2013      Test Time: 15:38 EDT

Dry Gas Target: 0.098

Lot Number: AG210901-13      Exp Date: 04/18/2014

Tank Pressure: 227 psi      Barometric Pressure: 744 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	15:38
CHK	0.098	15:39
BLK	0.000	15:41
CHK	0.098	15:41
BLK	0.000	15:43
CHK	0.098	15:43

Test Status: *Success*

Calibration CRC: 12FC2C8E



COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

Handwritten initials: HNS and Nsk

NAME OF ACCUSED <b>INSTRUMENT, TEST,</b>	NAME OF COURT <b>DFS</b>
---	-----------------------------

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY <b>STANTON, HEATHER, M</b>		AGENCY <b>DFS Central Lab</b>
DFS LICENSE NUMBER <b>18910</b>	LICENSE EXPIRES <b>10/01/2014</b>	DATE TEST CONDUCTED <b>10/17/2013</b>
TEST EQUIPMENT NUMBER <b>010545</b>		

RESULTS: TIME SAMPLE TAKEN 15:51 EDT

SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

BREATH TEST OPERATOR
----------------------

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_  
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_  
OPERATOR'S SIGNATURE



# IntoxNet MIS Report

Report Generated 18 Oct 2013 at 08:31

AMS  
NCK

## Test Results

Instrument Serial Number 010545

Test # 000589 Subject Test

Test Location 1 Department of  
Test Date 17 Oct 2013

Test Location 2 Forensic Science  
Test Time 15:45  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name STANTON  
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M

License Number 18910

Card Serial Number 118910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 17 Oct 2013 End Time 15:52

Result Time 15:51

Result Date 17 Oct 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 15:45

Data Type BLK

Sample Value 0.000

Sample Time 15:46

Data Type CHK

Sample Value 0.098

Sample Time 15:47

Data Type BLK

Sample Value 0.000

Sample Time 15:48

Data Type SUBJ

Sample Value 0.000

Sample Time 15:48

Data Type BLK

Sample Value 0.000

Sample Time 15:49

Data Type SUBJ

Sample Value 0.000

Sample Time 15:51

Data Type BLK

Sample Value 0.000

Sample Time 15:52

Standard Type Dry Gas Std

Standard Value 0.098

Standard Lot Number AG210901-13

Standard Expiration Date 04/18/2014

Tank Pressure 223

Barometric Pressure 744 mmHg

Blow Sample Number 1 Blow Duration 3.57 sec

Blow Volume 1706 cc End-of-Blow Time 15:48

Blow Sample Number 2 Blow Duration 3.55 sec

Blow Volume 1727 cc End-of-Blow Time 15:51

Tamper Evident Stamp 573b494c

Test Status Code 0

Test Status Success